





CHIL data for the NIST Rich Transcriptions 2006 evaluations

Djamel MOSTEFA
Evaluations and Language resources
Distribution Agency (ELDA)

http://www.elda.org

1

Plan

- CHIL Data collection
- Evaluated technologies
- CHIL data for RT'06
- Labelling
- Evaluation packages
- Conclusion







Data collecting sites (1/2)

- •Non interactive seminars
 - •UKA, Germany
 - •ITC-irst, Italy





ITC









Data collecting sites (2/2)

Interactive seminars

•AIT, Greece 👡

•UPC, Spain

scripted

•IBM, USA





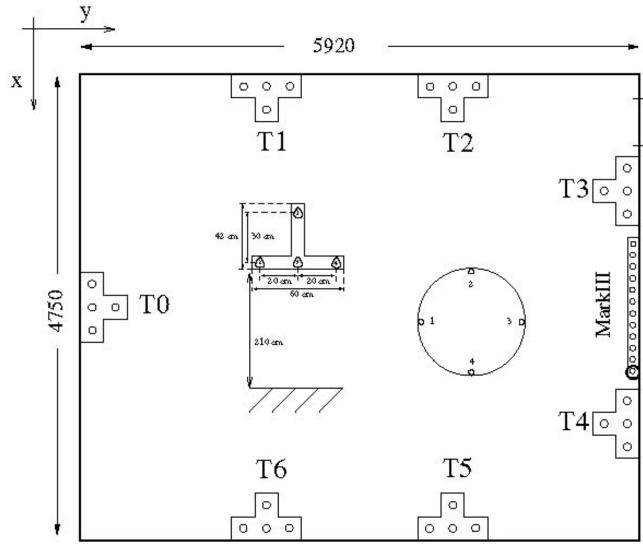


UPC IBM AIT



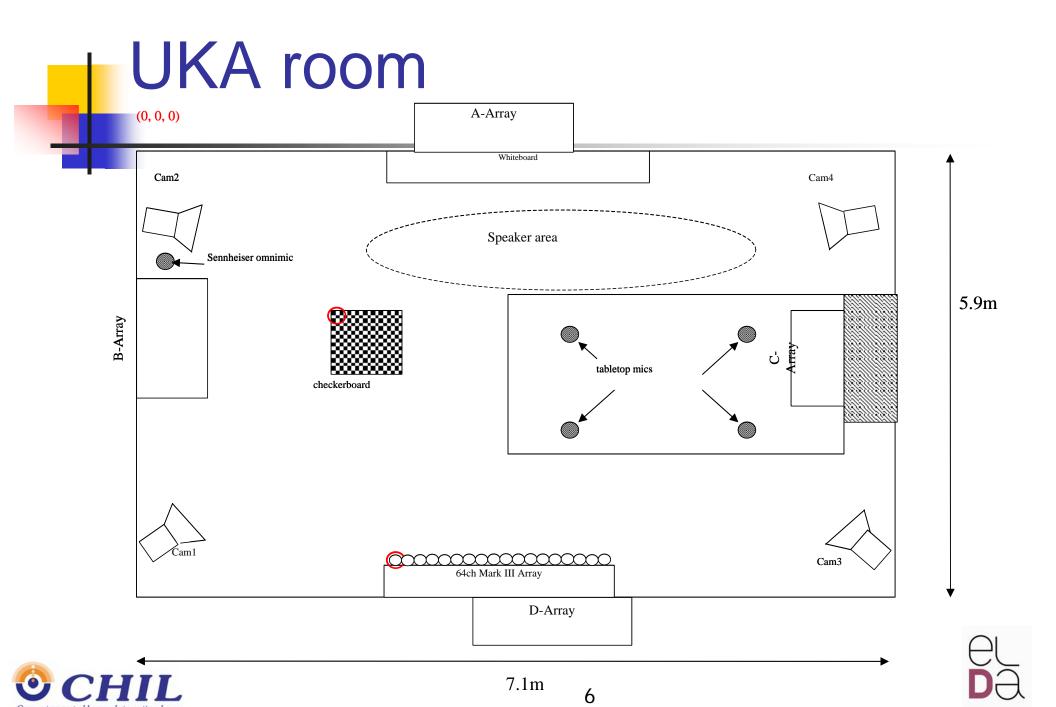


ITC room

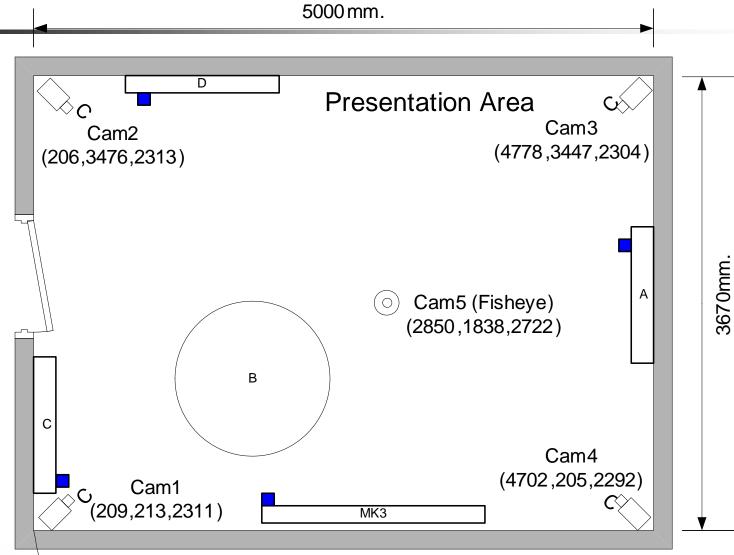








AIT room setup

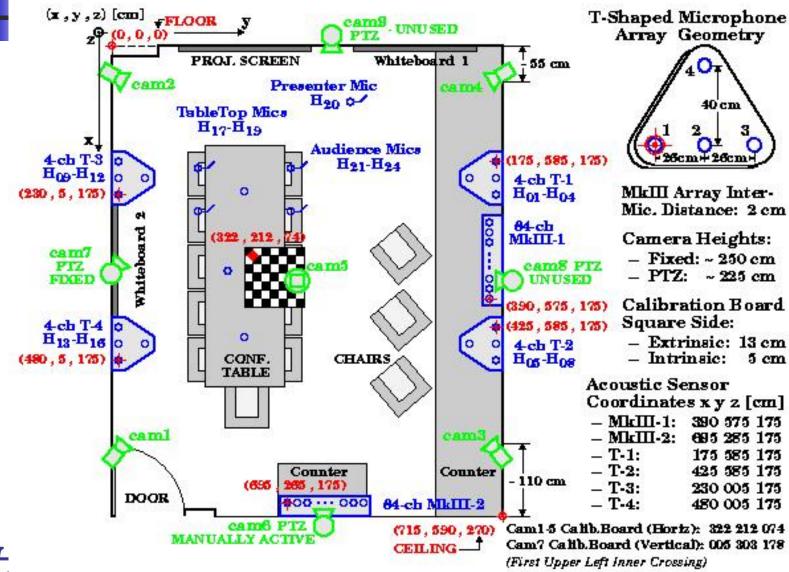






Computers in the Human Interaction Loop

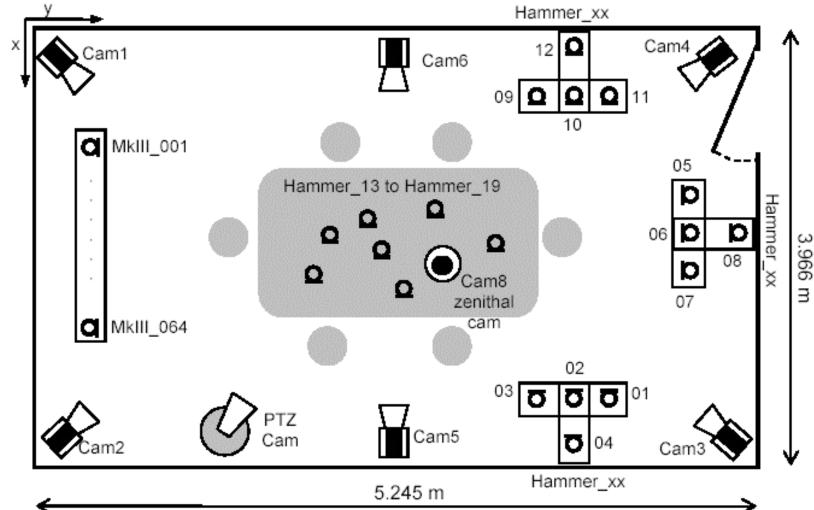
IBM room





-

UPC room









Content of a seminar

Video data

4 or 5 video sequences (JPEG files at 15 to 30 fps)

Audio data

- hammerfall channels
 - CTMs, tabletops, T-shape arrays, lapel
 - 44kHz, 24 / 16 bits resolution
- markIII array
 - 64 channels, 44kHz, 24-bits resolution





Evaluated technologies

Vision technologies

- Face & Head tracking CLEAR'06
- Visual Person Tracking CLEAR'06
- Visual Person Identification CLEAR'06
- Head Pose Estimation CLEAR'06

Audio technologies

- Automatic Speech Recognition RT'06
- Acoustic Person Tracking (in space) CLEAR'06
- Acoustic Speaker Identification CLEAR'06
- Speech Activity Detection / speaker diarization RT'06
- Acoustic Event Detection and Classification CLEAR'06

Multimodal technologies

- Multimodal Person Identification CLEAR'06
- Multimodal Person Tracking CLEAR'06

Content processing



Questions Answering CHIL'Q6

Automatic Summarization CHIL'06





CHIL Training data

- Training data available for UKA seminars only
 - 2003, 2004 seminars
- No training data for the other sites
 - All data collected in 2005 is used for the evaluations







Devset and evalset

	CHIL 06 Devset	CHIL 06 Eval set
UKA	17 * 5 min	12 * (5 + 5 min)
ITC	1 * 15 min	2 * 5 min
AIT	1 * 15 min	4 * 5 min
IBM	1 * 15 min	4 * 5 min
UPC	1 * 15 min	4 * 5 min
TOTAL	145 min	190 min







Eval data statistics

- 38 x 5 min from 26 seminars
- 25k running words
- 2.6k lexicon
- 74 speakers
 - 7 f / 67 m
 - Non native English speakers







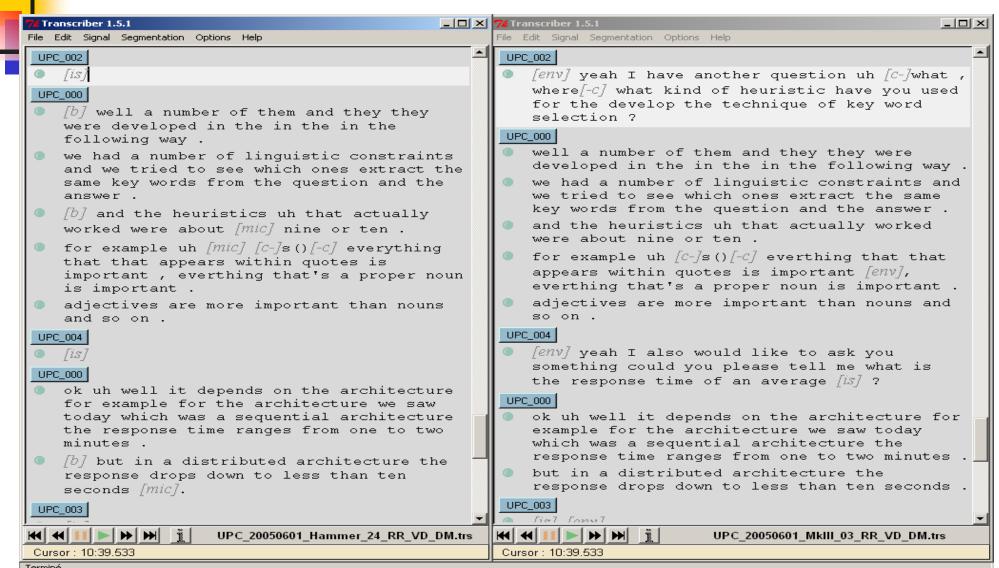
Transcriptions

- 2 transcriptions are produced:
 - Close-Talking Microphone of the presenter
 - One channel from the microphone array (ch4)
- CTM transcription is used as bootstrap for the FF transcription
- FF transcription is used as reference for RT'06





Transcription example









Distribution

- The CHIL data will be available to external partners through ELDA's catalogue
- ~40 hours of transcribed data
- Evaluation packages
 - Enable external players to run the evaluation offline
 - Data, tools, results of the official campaign







Summary

- Presentation of the lecture data for RT'06
- Multi sites data collection
- Same data used in many evaluations CLEAR/CHIL/RT
- Data publicly available through ELDA's catalogue



